

Release 11i Applications DBA - Teaching An Old Dog New Tricks

Randy Giefer Computer Systems Authority

1 Introduction

The goal of this paper and related presentation is to assist existing Oracle Applications DBAs and Administrators in identifying the new features of Release 11i that will affect how they accomplish their day-to-day administrative tasks. It is unrealistic to attempt for this to be the ultimate, comprehensive reference for these items, but a summary level description of each is provided to aid the reader. Additional references will be noted throughout the document.

Many changes will be occurring to this document, as new features, tips & tricks, and lessons learned are discovered over time. Updated copies of this document can be found on the CSA web site (www.csac.com) by clicking on the 'Papers & Presentations' button.

1.1 The Author

Randy Giefer has over 17 years of practical business experience in the Information Technology and Systems arena, with experience in the energy, airline, mortgage banking, automotive manufacturing and finance industries. This business experience is coupled with more than 4 years of experience in the implementation and administration of Oracle Financial and Manufacturing software applications in the role of an Applications Database Administrator. In addition to his Oracle Applications experience, he has over 7 additional years of Oracle database development and administration. His project experience includes systems architecture, database architecture, installation, upgrades, performance tuning, development, testing, database administration and production systems management.

In addition to several prior management roles, he is currently a Practice Director and a Applications DBA consultant for Computer Systems Authority, a leading provider of Real World Solutions® for information systems and integration challenges. Randy and other CSA professionals provide unparalleled industry experience to the business world by using a comprehensive suite of services and tools that accelerate each solution and keep it focused on the customer's business objectives. With professionalism and attention to quality, CSA delivers the most comprehensive solutions available in a quick and efficient manner. This unique balance of business and technical expertise has earned CSA recognition with more than 230 domestic and international customers.



2 Abstract

This paper focuses on the features of Release 11i that are new or different for current R10.7 Applications System Administrators and Applications DBAs. Emphasis is placed on preparing the existing Oracle Applications DBA for the changes that will impact them on an everyday basis once R11i is implemented.

3 Executive Overview

Release 11i introduces many new changes into the way that the Oracle Applications are administered on a day-to-day basis. For existing Release 10.7 Applications DBAs and System Administrators, these changes can dramatic, given their current technology implementation under the 10.7 release. These changes come from two main areas, the Release 11i technology stack, and Release 11i itself.

3.1 Release 11i Technology Stack

Never has a single Applications release introduced so many new products and tools with as many new features as is the case with Release 11i. From the numerous and in depth changes within Oracle 8i, to the multi-component technology stack required to execute the applications forms in a three tier environment, it is very obvious that this is one of the most complex technology infrastructures that Applications DBAs will have to support.

Oracle 8i. While there are numerous new features in Oracle 8i, this presentation will primarily address those utilized by Release 11i. Features like materialized views, cost-based optimization, advanced queuing, temporary and partitioned tables, invoker rights and cache fusion will be defined, with tips, tricks, and pitfalls added. Applicable init.ora parameters will also be addressed.

Internet Computing Architecture. Along with Oracle 8i, there are numerous other components that comprise the underlying technology stack for Release 11i. A brief description, as well as additional notes and hints relating to the following products will be given: Oracle Forms Server, Oracle Reports Server, Oracle Graphics Server, WebDB, and the JRE (Java Runtime Environment).

3.2 Release 11i New Features

As with any new Applications release, there are changes and improvements to the Applications that affect the day-to-day administration of the environment, and Release 11i does not fail to deliver it's share of these changes for the administration staff. Discussions will focus on changes that affect the day-to-day administration. Changes to the AutoPatch process and AD utilities, new configuration files, the new License Manager will be some of the topics discussed. Key changes to some of the database table structures will also be addressed.



4 Release 11i Technology Stack Breakdown

Never has a single Applications release introduced so many new products and tools with as many new features as is the case with Release 11i. From the numerous and in depth changes within Oracle 8i, to the multi-component technology stack required to execute the applications forms in a three tier environment, it is very obvious that this is one of the most complex technology infrastructures that Applications DBAs will have to support.

4.1 Release 11i Technology Stack - Oracle 8i

At the heart of the new technology stack for Release 11i, is the latest and greatest version of Oracle's RDBMS, Oracle 8i. While there are numerous new features in Oracle 8i, here are a few that are applicable to administrators of Release 11i.

4.1.1 Materialized Views

Materialized views can be used to summarize, replicate, and distribute data and are often used to precompute and store aggregated data such as sums and averages. They can be used to provide better performance when you have many individual queries repeatedly creating the same summary results. Unlike traditional views, materialized views are actually stored data – they consume data storage space. Since they are analogous to a snapshot, they need to be refreshed frequently if the accessed tables also change frequently. What is unique about materialized views, is that the view itself does not have to be explicitly stated in a SQL statement in order to be utilized. If the init.ora parameter qwery_rewrite_enabled is enabled, the Cost Based Optimizer will use a materialized view instead of the original source tables when it recognizes that doing so will improve the execution plan for a query.

4.1.2 Cost-based Optimization

The Oracle RDBMS can be configured via init.ora parameters to use either a *rule-based* or *cost-based* approach. Using CBO, the optimizer will choose the available access paths and factors based on hints and statistical information gathered on the tables and indexes referenced in the SQL statement. Here's how it works:

- 1. The optimizer creates a set of potential execution plans for the SQL statement based on the available access paths and hints.
- 2. The optimizer estimates the *cost* of each execution plan based on statistics in the data dictionary. This data is comprised of statistics based on the data distribution and storage characteristics of the tables, indexes, and partitions.
- 3. The optimizer compares the costs of the execution plans and chooses the one with the lowest cost.



4.1.2.1 Parameters for Cost–Based Optimization

This section describes the mandatory init.ora parameters that relate to cost-based optimization.

| init.ora Parameter Name | Suggested Value |
|--------------------------------|-----------------|
| | |
| sort elimination cost ratio | 5 |
| optimizer mode force | TRUE |
| fast full scan enabled | FALSE |
| ordered nested loop | TRUE |
| _complex_view_merging | TRUE |
| <pre>push join predicate</pre> | TRUE |
| use column stats for function | TRUE |
| _push_join_union_view | TRUE |
| like with bind as equality | TRUE |
| or expand nvl predicate | TRUE |
| table scan cost_plus_one | TRUE |
| optimizer undo changes | FALSE |
| db_file_multiblock_read_count | 8 |
| optimizer max permutations | 79000 |
| optimizer mode | CHOOSE |
| optimizer_percent_parallel | 0 |
| optimizer_features_enable | 8.1.6 |
| query rewrite enabled | TRUE |

Table 1 - init.ora CBO Parameters

Note: Oracle provides a script, \$FND_TOP/sql/AFCHKCBO.sql (from patch 1245516) to check the current setting of these parameters in the v\$parameters table. The output of the script is a list of all parameters along with their current and recommended values.

4.1.2.2 CBO and Release 11*i*

Cost-based optimization (CBO) has been around for sometime, but the Oracle Apps have used rule-based almost exclusively until this release. For Release 11i, the SQL has been tuned (supposedly) for cost-based optimization, and as a result, Release 11i requires the use of cost-based optimization. Prior to Release 11i, optimizer_mode was always set to rule. For Release 11i, optimizer_mode must be set to choose. The Oracle Applications will set the particular optimizer mode to either first_rows or all_rows, depending on whether the session is online or batch. In general, profile options will establish that online users use first_rows, and that batch jobs use all_rows. For concurrent programs, the **Define Concurrent Programs** form has a list box on the Session Control dialog that allows the specification of an optimizer mode.



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Figure 1. Define Concurrent Program Screen



4.1.2.3 Gathering Statistics in Release 11i

In order to use CBO effectively, the statistics must be current. Fortunately, Oracle has provided some scripts and concurrent programs to make this administrative task easier. FND_STATS is a PL/SQL package for the Applications that has numerous functions that will assist in this administrative task. The following concurrent programs have been defined to gather and maintain various statistics using the FND_STATS package.

Concurrent Programs

Analyze All Index Columns
Gather Table Statistics
Backup Table Statistics
Restore Table Statistics
Gather Column Statistics
Gather All Column Statistics
Gather Schema Statistics

Additional Information: The Optimizer, Oracle8i Concepts

4.1.3 Database Resource Manager

The Database Resource Manager in Oracle8i gives the system administrator more control over system resource management. By utilizing resource consumer groups, resource plans, resource allocation methods, and resource plan directives, the DBA can specify how to allocate processing resources (only CPU) among different users. This is a new enhancement that allows a DBA to assign priorities to different users or user groups within the database. For instance, the DBA could limit ad hoc queries to consume no more than a specific percentage (e.g. 10%) of total CPU usage. The DBA could also allocate a specific percentage of CPU to a group of key users during certain times of the day. For example, the DBA could guarantee the shipping users 50% of the CPU resources during a key time of the day (e.g. 3:00pm to 5:00pm), and then give priority to long running GL batch jobs after business hours

4.1.3.1 Enabling the Database Resource Manager

The Database Resource Manager is enabled by setting the init.ora parameter, RESOURCE_MANAGER_PLAN. This parameter indicates which resource plan to use for this instance. The Oracle resource manager will load this top plan as well its associated sub-plans, directives and consumer groups. This parameter may also be set by a DBA after instance startup using the ALTER SYSTEM command on the parameter.



4.1.3.2 Managing Resource Objects

There are several procedures available to create/update/delete resource plans, subplans and resource groups. The DBMS_RESOURCE_MANAGER package is used to facilitate this.

Additional Information:

- Oracle Applications Release 11i Concepts, pg. 20
- Oracle 8i Administrator's Guide, Sections 9 and 11
- Oracle 8i Concepts, Section 9 Database Resource Management

4.1.4 Partitioned Tables

Partitioned tables are large tables that are sub-divided into smaller and more manageable segments. Release 11i products now use this RDBMS feature so that SQL statements can access and manipulate the partitions rather than entire tables or indexes. There are two primary partitioning methods: range partitioning, which partitions the data in a table or index according to a range of values, and hash partitioning, which partitions the data according to a specified hash function. Benefits of partitioning:

- 1) Separate segments to store each partition of a range-partitioned or hashpartitioned table or index.
- 2) Ability to map partitions to different disk drives to balance the I/O load and increase parallelism.
- 3) Ability to back up and recover each partition independently.

Additional Information:

- Oracle Applications Release 11i Concepts, pg. 21

4.1.5 Temporary Tables

Release 11i now uses the Oracle 8i Server temporary table feature. Temporary tables hold data that exists only for the duration of a session or transaction. This data is private to the session and can only be modified or read by the session that owns it. It is important to note that unlike permanent tables, SQL updates on temporary tables are not written to the redo logs, and as a result, DML locks are not acquired to manipulate the data in a temporary table. The INV and GL modules are now starting to use this feature.

4.1.6 Invoker Rights

Previous releases of the Oracle Applications had the ability to utilize features called Multiple Reporting Currencies (MRC) or Multiple Sets of Books Architecture (MSOBA). If these features where used, several copies of Oracle Applications packages existed in the database. This took up more space in the database and required extra time to upgrade and maintain. Release 11*i* now uses the new Invoker Rights functionality of Oracle 8*i* to ensure that most packages are installed only once, in the APPS schema. Now, other schemas, such as the MRC and MSOBA schemas, have synonyms that point to the packages in the APPS schema, instead of having their own copies.



Additional Information:

- Oracle Applications Release 11i Concepts, pg. 22
- PL/SQL User's Guide and Reference

4.1.7 Cache Fusion

In environments where Oracle Parallel Server is utilized, a new feature of Oracle 8*i*, called *cache fusion* allows the sharing of data that has been committed, but not written to disk among the OPS nodes. Cache Fusion provides copies of blocks directly from the holding node's memory cache to the requesting node's memory cache, increasing the availability of the remaining node in the case where one of the OPS nodes goes down.

4.1.8 Locally Managed Tablespaces

Locally Managed Tablespaces are tablespaces that in essence, manage their own extents. This is accomplished by maintaining a bitmap in each datafile to keep track of the free or used status of blocks in that specific datafile. Each bit in the bitmap corresponds to a datafile block. When the extents are either allocated or freed for reuse, the bitmap values are switched to show the new status of the blocks, either allocated or free. The specific updates written to these bitmaps do not update any tables in the data dictionary, and also are not recorded in the rollback segments.

ADVANTAGES IN USING LOCALLY MANAGED TABLESPACES

- Because locally managed tablespaces do not record extent and free space information in data dictionary, there is reduced contention on the data dictionary tables.
- Local management of extents automatically tracks adjacent free space, eliminating the need to coalesce free extents.
- Avoids recursive space management operations, which can occur in dictionary-managed tablespaces if consuming or releasing space in an extent results in another operation that consumes or releases space in a rollback segment or data dictionary table.
- Sizes of extents that are managed locally can be determined automatically by the system. Alternatively, all extents can have the same size in a locally managed tablespace.
- Changes to the extent bitmaps do not generate rollback information because they do not update tables in the data dictionary (except for special cases such as tablespace quota information).
- Reduced fragmentation



4.2 Release 11i Technology Stack – Internet Computing Architecture

Along with Oracle 8i, there are numerous other components that comprise the underlying technology stack for Release 11i.

- Oracle8i Enterprise Edition 8.1.6 with interMedia and Spatial options
- Oracle8 Enterprise Edition 8.0.6
- WebDB 2.2
- WebDB 2.5
- Apache Web Server (1.3.9)
- JServ (1.1)
- JRE (Java Runtime Environment) 1.1.8
- JDK (Java Development Kit) 1.1.8
- Oracle Web Discoverer 3.3.48 (optional)
- Oracle JInitiator (1.1.7) on the client
- Oracle Forms 6i
- Oracle Reports 6i

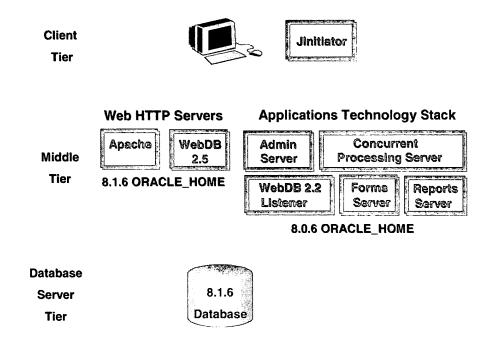


Figure 2 – ICA Technology Stack Diagram

The combination of multiple versions of the same product is due to the Applications being developed and certified on previous, instead of the most recent releases of products. The products associated with the Applications technology stack are:

- Oracle8 Enterprise Edition 8.0.6 (only Oracle Home)
- Oracle Forms 6i, Oracle Reports 6i, Oracle Graphics
- WebDB 2.2 (WebDB listener only against 8.0.6 Oracle Home)



5 Release 11*i* New Features

As with any new Applications release, there are changes and improvements to the Applications that affect the day-to-day administration of the environment, and Release 11i does not fail to deliver it's share of these changes for the administration staff.

5.1 Release 11*i* User Interface

Release 11*i* brings a new look and feel to the Applications, especially for those that are switching from character mode! For those upgrading from 10.7 NCA or Release 11, there are some noticeable differences in the user interface.

New Look and Feel

- Required fields are color highlighted
- LOV Indicator
- Bubble help
- Context sensitive help
- Right mouse click popup menus
- Better Colors!
- Folder tab metaphor alternate regions displayed as folder tabs
- For 10.7 and 11 NCA installs, no more floating toolbar!

5.2 Workflow-enabled Applications

The following Oracle applications modules are now workflow-enabled.

- Purchasing
- General Ledger
- Payables
- Project Accounting
- Receivables
- HR
- Account Generator
- Oracle Business Intelligence
- Oracle Service
- Oracle Engineering
- Oracle Inventory
- Oracle Web Employees
- Oracle Web Customers
- Oracle Web Suppliers
- Implementation Wizard
- Oracle CRM



5.3 Define Concurrent Program – Screen Changes

The Define Concurrent Programs screen has changed somehwat:

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Figure 3 – Define Concurrent Program Screenshot.

5.3.1 New Define Concurrent Programs Screen Fields

New fields on the Define Concurrent Programs screen:

- Priority
- Incrementor
- MLS Function
- Restart on System Failure
- Enable Trace
- NLS Compliant



5.3.1.1 Priority

You can assign a concurrent program its own priority from the Define Concurrent Program screen. The Concurrent Managers process requests submitted to this program at the priority specified here. If a priority is not specified on this screen, it will be set to the value specified in the user's profile option Concurrent:Priority at the time the request is submitted.

5.3.1.2 Incrementor

Internal development use only. A future enhancement?

5.3.1.3 MLS Function

The Multilingual Concurrent Request feature allows a user to submit a request once to be run multiple times, each time in a different language. If the concurrent program has been programmed to utilize this feature, then the specified MLS function determines which installed languages are needed for the request.

5.3.1.4 Enable Trace Checkbox

SQL trace files can now be generated for individual concurrent programs – hurray!

5.3.1.5 Restart on System Failure Checkbox

Indicates that this concurrent program should automatically be restarted when the concurrent manager is restored after a system failure.

5.3.1.6 NLS Compliant Checkbox

For concurrent programs that have been specifically written to take advantage of the NLS Compliant feature, checking this box allows a user to submit a request of this program that will reflect a language and territory that are different from the language and territory that the users are operating in.

For example, a user can enter an order in English from the United Kingdom using the number and date formats established for the UK, and the have the invoices generated in German using the number and date formats appropriate for German customers.



5.3.2 Session Control Dialog

When defining a Concurrent Program using the Define Concurrent Program screen, the Session Control dialog is launched after clicking on the Session Button at the bottom of the screen. This is a new dialog that allows the administrator to specify options for the database session of the concurrent program when it is executed.

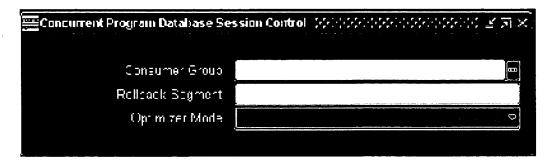


Figure 4 – Concurrent Program Session Control Dialog

5.3.2.1 Consumer Group

The Consumer group field is used to specify the resource consumer group for the concurrent program. As was stated earlier in this document, the Database Resource Manager in Oracle8i is used to allocate and manage resources among database users and applications. The defined resource consumer groups and resource plans provide a method for specifying how to distribute processing resources across different users and user groups. This field allows the administrator to assign concurrent programs to a resource consumer group.

5.3.2.2 Rollback Segment

The Rollback Segment field is used to specify a rollback segment for the concurrent program. A couple of notes here:

- 1) The specified rollback segment is only used up to the first commit.
- 2) The Concurrent Program executable must call the functions FND_CONCURRENT.AF_COMMIT and FND_CONCURRENT.AF_ROLLBACK in order to use the specified rollback segment.

5.3.2.3 Optimizer Mode

As was stated earlier in this document, the Oracle Applications now utilize the Cost Based Optimizer. Using this field, you can specify which mode you want to utilize during execution of this concurrent program (FIRST_ROWS, ALL_ROWS, RULE, or CHOOSE).



5.4 Concurrent Manager Changes

The only notable change on the Define Concurrent Managers screen is the addition of the Consumer Group field, which has already been discussed.

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Figure 5 – Define Concurrent Manager Screen



5.5 Network Test Screen

The Network Test Screen has been updated for Release 11i to include Latency and Bandwidth information for the client to the middle-tier, and the middle-tier to the database.

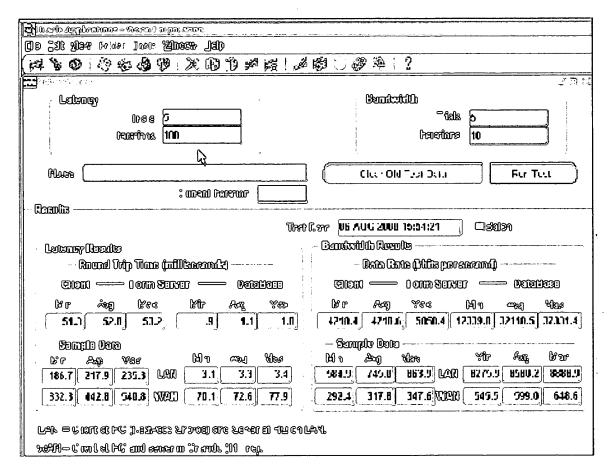


Figure 6 - Network Test Screen



5.6 Key Table Changes

The following table identifies some of the table changes that may affect the scripts used in existing 10.7 or Release 11 environments.

| Table Name | Column Name | Type |
|--------------------------|------------------------------|------|
| FND_CONCURRENT_PROCESSES | INSTANCE_NUMBER | New |
| | LAST_TXN_END | New |
| | LAST_TXN_START | New |
| | PLSQL_DIR | New |
| FND_CONCURRENT_PROGRAMS | ENABLE_TIME_STATISTICS | New |
| | INCREMENT_PROC | New |
| | MLS_EXECUTABLE_APP_ID | New |
| | MLS_EXECUTABLE_ID | New |
| | OPTIMIZER_MODE | New |
| | RESOURCE_CONSUMER_GROUP | New |
| | ROLLBACK_SEGMENT | New |
| | SECURITY_GROUP_ID | New |
| | STAT_COLLECT | New |
| | DESCRIPTION | Del |
| | MAXIMUM_LENGTH | Del |
| | MAXIMUM_WIDTH | Del |
| | USER_CONCURRENT_PROGRAM_NAME | Del |
| FND_CONCURRENT_QUEUES | INSTANCE_NUMBER | New |
| | LAST_VERIFIED | New |
| | PCP_FLAG | New |
| | PMON_STAT | New |
| | RESOURCE_CONSUMER_GROUP | New |
| | WORK_END | New |
| | WORK_START | New |
| | DESCRIPTION | Del |
| FND_CONCURRENT_REQUESTS | EXP_DATE | New |
| | LFILE_SIZE | New |
| | NLS_CODESET | New |
| | OFILE_SIZE | New |
| | OPS_INSTANCE | New |
| | QUEUE_APP_ID | New |
| | QUEUE_ID | New |
| | RESOURCE_CONSUMER_GROUP | New |
| | RESUB_COUNT | New |
| | SECURITY_GROUP_ID | New |
| | STALE | New |

Thanks to Eric Albacete, CSA Principal Consultant for assisting with the identification of these table changes.

Randy Giefer Computer Systems Authority www.csac.com



5.7 Profile Options

Several new profile options have been added in Release 11i.

5.7.1 FND: Resource Consumer Group

Resource consumer groups are used by the Oracle8i Database Resource Manager, which allocates CPU resources among database users and applications. Each form session is assigned to a resource consumer group. The system administrator can assign users to a resource consumer group for all of their forms sessions and transactions. If no resource consumer group is found for a process, the system uses the default group "Default_Consumer_Group".

5.7.2 Utilities:SQL Trace

SQL trace can be enabled at the user level by setting the profile "Utilities:SQL Trace" to "Yes". Only the System Administrator can enabled this profile for a user.

5.8 License Manager (LicenseMgr)

Now in Release 11i, when additional products or languages need to be added to a Oracle Applications installation, a GUI application called the Oracle Applications License Manager is used to accomplish these tasks.

For UNIX users:

- \$ cd \$COMMON_TOP/admin/assistants/licmgr
- \$ LicenseMgr

6 Summary

In closing, there are many changes and new features that have added some complexity to the administration of the Release 11i Applications. By using this document as a guideline, you will be able to prepare yourself ahead of time to be successful once your upgrade is complete.